



### Specifications: RS1001i-II

|  |  |
|--|--|
| System Type                              | 10" Subwoofer, open-ceiling, ported (150 Watt optional transformer for 25/70.7/100 Volt or 4 ohm direct) |
| Impedance (nominal) <sup>1</sup>         | 4 ohm  |
| Sensitivity dB @ 2.83V/1M                | 93.5dB   |
| Sensitivity dB @ 1W/1M <sup>2</sup>      | 90.5dB   |
| Distance Factor                          | N/A  |
| Frequency Response (-3 dB) <sup>3</sup>  | 53 Hz - 120 Hz   |
| Frequency Response (-10 dB) <sup>3</sup> | 40 Hz - 300 Hz   |
| Max. Program Power <sup>4</sup>          | 300w   |
| Max. Continuous Power RMS <sup>5</sup>   | 150w   |
| Max. UL program power                    | 100w   |
| Max. Power SPL @ 1 M <sup>6</sup>        | 112.5dB  |
| Max. SPL @ x% distortion <sup>7</sup>    | N/A  |
| Coverage Angle (-6 dB @ 2 kHz)           | N/A  |
| Coverage Angle (-6 dB @ 10 kHz)          | N/A  |
| Directivity Factor (Q)                   | N/A  |
| Directivity Index (DI) dB                | N/A  |
| Tap Selector                             | 5-Position rotary switch with 4 ohm direct   |
| Transducer - Low Frequency Driver        | 1 x 254mm (10in) Polypropylene cone, butyl rubber surround   |
| Transducer - High Frequency Driver       | N/A  |
| Low Frequency Voice Coil                 | 35.0mm 1.38in  |
| Crossover Frequency                      | 100.0 kHz  |
| Network Type: Low Pass                   | 6dB per octave, 1st order  |
| Network Type: High Pass                  | N/A  |
| Enclosure Material                       | Injection molded ABS, glass fiber reinforced   |
| Motor-board                              | N/A  |
| Grille                                   | Iridite-plated steel with powder-coat finish   |
| Inputs                                   | 4 Pin, 5mm Euroblock for individual or daisy chain connection  |
| Colors                                   | Black or white   |
| Height (SM = Height)                     | 17.23 in / 437.6 mm  |
| Diameter (SM = Width)                    | 14.82 in / 376.4 mm  |
| Weight                                   | 27.0 lb / 12.3 kg  |
| Shipping Weight                          | 32.5 lb / 14.8 kg  |
| <b>Accessories</b>                       |  |
| Included                                 | Hanging hardware, Euroblock connector & terminal weather boot  |
| Packaging                                | 1 per box  |

<sup>1</sup> Impedance listed per IEC 60268-5 with a minimum less than 80% the nominal impedance

<sup>2</sup> 1w1m sensitivity determined using nominal impedance

<sup>3</sup> Frequency response measured in half or full space as dictated by speaker mounting configuration

<sup>4</sup> Max program power is 3 dB above max continuous power

<sup>5</sup> Continuous power rating, EIA-426-B test

<sup>6</sup> Max output based on max continuous power

<sup>7</sup> Max useable SPL based on testing by NWA Labs

#### Transformer Taps

| 70.7 V Output | 100 V Output | 25 V Output  |
|---------------|--------------|--------------|
| 150w 112.5dB  | 150w 112.5dB | 19w 103.5dB  |
| 75w 109.5dB   | 75w 109.5dB  | 9.5w 100.5dB |
| 38w 106.5dB   | 38w 106.5dB  | 4.8w 97.5dB  |
| 19w 103.5dB   |              | 2.4w 94.5dB  |

### Key Features

- One 254 mm (10.0 in) polypropylene woofer mounted to a proprietary cast-aluminum M8™ baffle and heat sink.
- Weatherized components for indoor & outdoor applications.
- Includes hanging hardware with aircraft cables and integrated SpeedClamp™ self-locking cable grip for fast, easy & secure installation.
- Patented ZeroReflection™ enclosure technology for optimal sound reproduction & cabinet rigidity. Also includes Euro-lock connector & terminal weather boot.
- Easy access 5-position selectable tap switch for 25, 70.7 and 100 Volt applications with 4 Ohm bypass simplifies ordering and inventory tracking.
- Iridite-plated steel grille with protective powder-coated finish for lasting durability.
- 93.5 dB Sensitivity offers high-output capabilities & reduced amplification costs.
- UL 1480 rev. 5, CE approval (EMC Directive 89/366/EEC, EN55020, EN55013), Mil-spec 810 & IEC529 approval pending.
- High-quality black or white paint finish. Custom paint colors optional.

### Description

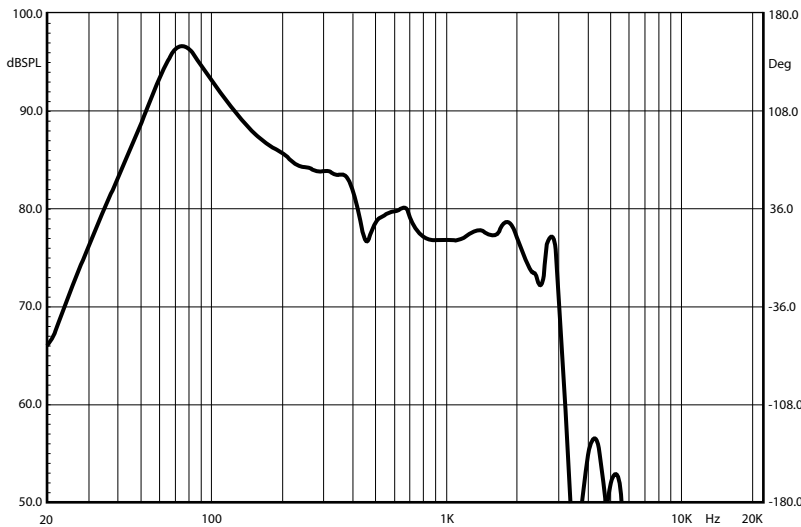
The RS1001i-II is a 10" subwoofer with an open-ceiling enclosure design that delivers additional low-end response (40 Hz) for satellite/subwoofer applications. The RS1001i-II speaker design incorporates a low-profile grille, 5-position tap switch with voice coil/4 Ohm direct. Hanging hardware is included & features SpeedClamp™ self-locking cable grip for fast, easy & secure installation.

### Applications

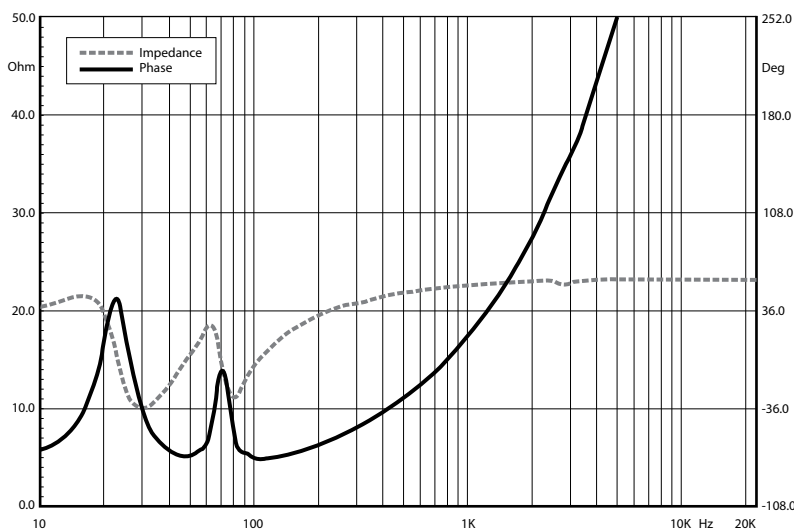
Designed for indoor & outdoor background subwoofer applications, the RS1001i-II includes a single point mounting system for rapid open-ceiling installations. True low-end response (40 Hz) and high sensitivity (90.5 dB 1W/1M) make the RS1001i-II ideal for additional bass response in retail, restaurants and other open-ceiling subwoofer applications.



### Frequency Response



### Phase/Impedance Reponse



### Patented SoundTube Technologies

SoundTube Entertainment is constantly developing new technologies that enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. & international patents, which explicitly cover SoundTube dispersion, enclosure & dome technologies. SoundTube Entertainment actively defends its patents in order to protect SoundTube resellers and end users.

### Technical Data and Specification Tools

#### Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at [www.soundtube.com](http://www.soundtube.com).

#### Data Acquisition

All performance data acquired at SoundTube's Technical Measurement Center (TMC) are analyzed using a variety of standard measurement techniques, including Measured Length Sequence (MLS) and Time Delay Spectrometry (TDS). Performance, development and data acquisition tools include: Gold Line TEF 20, CLIO, LMS, LEAP, and proprietary modeling software. EASE™ data are acquired through an automated TEF 20/Outline/EASE™ interface.

#### EASE™ Data – 3-D polar plots.

**SoundTubeSPECT™** – Proprietary SoundTube speaker placement software.

### Architectural Specifications

The loudspeaker shall consist of a 254 mm (10.0 in) low-frequency transducer with a low-pass filter installed in the ported enclosure. The low-frequency voice coil diameter shall be 35.0 mm (1.38 in).

Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 40 Hz – 300 Hz (-10 dB, half space, no external equalization). Measured sensitivity (2.83 Volt input, 1 meter) shall be at least 93.5 dB. The speaker shall have a nominal impedance of 4 Ohms

# RS1001i-II

**Open-Ceiling Speaker**  
Technical Information for System Engineers



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and be available for 25, 70.7 & 100 Volt modes with voice coil/4 Ohm direct. The frequency-dividing network shall have a crossover frequency of 100 Hz with a 6 dB per octave (1st order) slope for the low pass filter. Rated power capacity shall be at least 150 Watts continuous power (RMS) and conform to EIA-426-B testing. Maximum continuous output at 1 meter shall be 112.5 dB.

Installation for the RS1001i-II shall be by aircraft cable affixed to the speaker chassis via a carabiner. For seismic & safety redundancy, a secondary aircraft cable shall be included and attach to the speaker chassis via #10 bolt. The external wiring input connector shall be a 4-pin, 5 mm Euroblock for 4 Ohm or distributed systems and shall accept from 10 – 22 gauge wire. The system shall be for indoor & outdoor applications, and shall have a weather-resistant terminal boot covering all wire connectors.

The enclosure shall be constructed of injection molded, mineral filled, glass reinforced ABS. The grille shall be constructed of iridite-plated, powder-coated steel for lasting performance in the elements. Overall cabinet dimensions shall be no more than 437.6 mm (17.23 in) in height by 376.4 mm (14.82 in) in diameter. The RS1001i-II shall include hanging hardware, Euroblock connector and weather-resistant terminal boot.

The system shall be the SoundTube RS1001i-II subwoofer with hanging hardware for both low & high impedance applications.

## SoundTube Entertainment

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**All SoundTube products come with a 5-year limited warranty.**

